DO NOT ENTER: /M.M./

AMENDMENT UNDER 37 C.F.R. § 1.116

Appln. No.: 10/551,944

11/08/2010Attorney Docket No.: Q114482

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

 (currently amended): A graft copolymer containing polyorganosiloxane obtained by polymerizing,

1 to 8 parts by weight of a vinyl monomer (B) comprising 100 to 20% by weight of a multi-functional monomer containing at least two polymerizable unsaturated bonds in a molecule (b-1) and 0 to 80% by weight of another copolymerizable monomer (b-2) and

5 to 70 parts by weight of a vinyl monomer (C),

in the presence of 30 to 95 parts by weight of polyorganosiloxane in a latex state (A), so that the total amount of polyorganosiloxane (A), vinyl monomer (B) and vinyl monomer (C) becomes 100 parts by weight,

wherein polyorganosiloxane (A) is modified by a grafting agent (E), and
the graft copolymer containing polyorganosiloxane is obtained by reacting
polyorganosiloxane (A), which is modified by grafting agent (E), with a grafting agent (F) and
then polymerizing vinyl monomer (B) and vinyl monomer (C).

(original): The graft copolymer containing polyorganosiloxane of claim 1,
 wherein polyorganosiloxane (A) is obtained by seed polymerizing organosiloxane using a seed polymer that is swelled by organosiloxane.

16 Attorney Docket No.: Q114482

AMENDMENT UNDER 37 C.F.R. § 1.116

Appln. No.: 10/551,944

 (original): The graft copolymer containing polyorganosiloxane of claim 2, wherein the particle size of said seed polymer is 0.001 to 0.03

µm.

- (original): The graft copolymer containing polyorganosiloxane of claim 2, wherein Tg of said seed polymer is at most 0°C.
- (original): The graft copolymer containing polyorganosiloxane of claim 2,
 wherein the proportion of said seed polymer to polyorganosiloxane (A) is 0.1 to 10% by weight.
- (original): The graft copolymer containing polyorganosiloxane of claim 2, wherein the swelling volume ratio of said seed polymer is 3 to 50 times.
- (original): The graft copolymer containing polyorganosiloxane of claim 2, wherein the swelling volume ratio of said seed polymer is 5 to 25 times.
- 8. (original): The graft copolymer containing polyorganosiloxane of claim 1, wherein vinyl monomer (C) is at least one monomer selected from the group consisting of an aromatic vinyl monomer, a cyanized vinyl monomer, a (meth)acrylic ester monomer and a vinyl monomer containing a carboxyl group.
- 9. (original): The graft copolymer containing polyorganosiloxane of claim 1, wherein a radical polymerization initiator (D) having solubility to water of 0.5 to 10~g/100~g

AMENDMENT UNDER 37 C.F.R. § 1.116 Attorney Docket No.: Q114482

Appln. No.: 10/551,944

(20°C) and hydrogen drawing properties of 10 to 30% is used when polymerizing vinyl monomer (B) and/or vinyl monomer (C).

10, (canceled).

11. (currently amended): The graft copolymer containing polyorganosiloxane of claim 140, wherein the amount of grafting agent (E) is 0.1 to 10 parts by weight based on 100 parts by weight of polyorganosiloxane (A).

12. (canceled).

- 13. (currently amended): The graft copolymer containing polyorganosiloxane of claim $\underline{112}$, wherein the reaction temperature of grafting agent (F) and vinyl monomer (B) is 20 to 60° C.
- (original): A flame retardant comprising the graft copolymer containing polyorganosiloxane of claim 1.
- 15. (withdrawn): A resin composition comprising 0.1 to 20 parts by weight of the flame retardant of claim 14 based on 100 parts by weight of thermoplastic resin.
- (withdrawn): A process for preparing an emulsion of polyorganosiloxane which comprises

Attorney Docket No.: Q114482

AMENDMENT UNDER 37 C.F.R. § 1.116

Appln. No.: 10/551,944

obtaining polyorganosiloxane (H) by emulsion polymerizing cyclic organosiloxane under acidic conditions of pH of at most 5; and

adding condensation reactive organosilane represented by formula (1):

$$R^{1}_{n}Si(OR^{2}_{)(4-n)}$$
 (I)

(wherein R¹ represents an organic group, R² represents a hydrogen atom or an alkyl group having 1 to 5 carbon atoms, n represents an integer of 0 to 3)

or a partially hydrolyzed condensate thereof (I).

- 17. (withdrawn): The process for preparing an emulsion of polyorganosiloxane of claim 16, wherein 0.1 to 50 parts by weight of condensation reactive organosilane or partially hydrolyzed condensate thereof (I) is added based on 100 parts by weight of polyorganosiloxane (H) and reaction is conducted at a temperature of 30 to 95°C under acidic conditions of pH of at most 5.
- 18. (withdrawn): The process for preparing an emulsion of polyorganosiloxane of claim 17, wherein the temperature of polyorganosiloxane (H) when adding condensation reactive organosilane or partially hydrolyzed condensate thereof (I) is 10 to 50.degree. C.
- 19. (withdrawn): The process for preparing an emulsion of polyorganosiloxane of claim 16, wherein polyorganosiloxane (H) is obtained by polymerizing 100 parts by weight of cyclic organosiloxane and 0.01 to 20 parts by weight an alkoxysilane compound having a radical-polymerizable functional group in a molecule (J).

AMENDMENT UNDER 37 C.F.R. § 1.116 Attorney Docket No.: Q114482

Appln. No.: 10/551,944

20. (withdrawn): The process for preparing an emulsion of polyorganosiloxane of claim 16, wherein polyorganosiloxane (H) is obtained by emulsion polymerizing under acidic conditions and then aging at a temperature of 10 to 50°C for at least 6 hours.

- 21. (withdrawn): The process for preparing an emulsion of polyorganosiloxane of claim 19, wherein said radical-polymerizable functional group of alkoxysilane compound (J) is at least one functional group selected from the group consisting of a (meth)acryloyloxy group, a mercapto group, a vinvl group and a styryl group.
- 22. (withdrawn): A graft copolymer containing polyorganosiloxane obtained by polymerizing 5 to 70 parts by weight of a vinyl monomer based on 95 to 30 parts by weight of polyorganosiloxane particles in the emulsion of polyorganosiloxane obtained by the process of claim 16, so that the total amount becomes 100 parts by weight.